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OM nucleic - nucleic search, using sw model

Run on: May 17, 2002, 23:38:58 ; Search time 139.1 Seconds  
(without alignments)  
1907.147 Million cell updates/sec

Title: US-09-719-748-1\_COPY\_62\_1141

Perfect score: 1080

Sequence: 1 atgagccattcaagcagca.....ggagggagagcagcaccctcc 1080

Scoring table:

IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 38353 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/1/lna/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/1/lna/5B.COMB.seq:\*  
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5: /cgn2\_6/ptodata/1/lna/PCBUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/lna/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	514.6	47.6	2132	2	US-09-159-385-3
2	514.6	47.6	2132	4	US-09-186-277-3
3	512.8	47.5	1429	2	US-09-159-385-4
4	512.8	47.5	1429	4	US-09-186-277-4
5	448.6	41.5	4935	2	US-08-631-997-3
6	448.6	41.5	5886	4	US-08-810-712-9
7	445.4	41.2	480	3	US-09-221-235-12
8	445.4	41.2	480	3	US-09-221-928-12
9	445.4	41.2	480	3	US-09-221-527-12
10	445.4	41.2	480	3	US-09-221-336-12
11	445.4	41.2	480	3	US-09-221-416-12
12	445.4	41.2	480	4	US-09-221-245-12
13	445.4	41.2	480	4	US-09-163-115-12
14	445.4	41.2	480	4	US-09-221-528-12
15	445.4	41.2	480	4	US-09-593-553-12
16	445.4	41.2	480	4	US-09-231-337-12
17	445.4	41.2	1864	3	US-09-221-235-10
18	445.4	41.2	1864	3	US-09-221-828-10
19	445.4	41.2	1864	3	US-09-221-527-10
20	445.4	41.2	1864	3	US-09-221-336-10
21	445.4	41.2	1864	3	US-09-221-416-10
22	445.4	41.2	1864	4	US-09-221-245-10
23	445.4	41.2	1864	4	US-09-163-115-10
24	445.4	41.2	1864	4	US-09-221-528-10
25	445.4	41.2	1864	4	US-09-593-553-10
26	445.4	41.2	1864	4	US-09-221-337-10
27	146.8	13.6	1282	2	US-08-878-989-12

28	146.8	13.6	1282	4	US-09-272-796-12	Sequence 12, Appl
29	136.6	12.6	8906	2	US-08-826-267-1	Sequence 1, Appl
30	134	12.4	1417	1	US-08-713-828-2	Sequence 2, Appl
31	134	12.4	1417	2	US-08-919-627-2	Sequence 2, Appl
32	134	12.4	1417	2	US-09-096-245-2	Sequence 2, Appl
33	132.2	12.2	3471	2	US-08-715-568A-2	Sequence 2, Appl
34	107.6	10.0	425	1	US-08-700-575-44	Sequence 44, Appl
35	105	9.7	1776	3	US-08-655-352-10	Sequence 10, Appl
36	101.8	9.4	2514	3	US-08-655-352-1	Sequence 1, Appl
37	96.8	9.0	2374	4	US-09-347-801-3	Sequence 3, Appl
38	93.2	8.6	1400	1	US-08-464-164-1	Sequence 1, Appl
39	93.2	8.6	1400	1	US-08-338-057-1	Sequence 1, Appl
40	93.2	8.6	1400	2	US-08-668-416-1	Sequence 1, Appl
41	91.2	8.4	1349	1	US-07-951-715A-20	Sequence 20, Appl
42	91.2	8.4	1349	2	US-08-459-448A-20	Sequence 20, Appl
43	91.2	8.4	1349	3	US-08-459-595A-20	Sequence 20, Appl
44	91.2	8.4	1349	3	US-08-459-504B-20	Sequence 20, Appl
45	91.2	8.4	1349	3	US-08-459-444-20	Sequence 0, Appl

#### ALIGNMENTS

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RESULT 1
US-09-159-385-3
: Sequence 3, Application US/09159385
: Patent No. 5958748
: GENERAL INFORMATION:
: APPLICANT: AKIRA, SHIZUO
: TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE
: FILE REFERENCE: PH-569
: CURRENT APPLICATION NUMBER: US/09/159, 385
: EARLIER FILING DATE: 1998-09-23
: EARLIER APPLICATION NUMBER: JP97/261589
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 3
: LENGTH: 2132
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (94)..(1455)
US-09-159-385-3

Query Match 47.6% Score 514.6; DB 2; Length 2132;
Best Local Similarity 76.1%; Pred. No. 2,1e+125;
Matches 634; Conservative 0; Mismatches 199; Indels 0; Gaps 0;

QY 1 atgagccattcaagcagcagaaggttgagagactttatgacatcgagagagagctggg 60
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Db atgcaagcttcagcagcagcagcagcgttgagagacattatgagctgggagagctggg 153

QY 61 agtggcagcttgccatctgtgaagaatgccgggaggaagacacagggcttgatata 120
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Db agcggcagcttgccatctgtgaagaatgccgggaggaagacacagggcttgatata 213

QY 121 gccaaatcatcaagaagcagcagcagccggcgagcggcggtgtgagccgggaagag 180
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Db gccaaatcatcaagaagcagcagcagccggcgagcggcggtgtgagccgggaagag 273

QY 181 atcgagcgaggagtgagcattctgcgcaggtgtgctacacaaatgatacagctgac 240
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Db atcgagcgaggagtgagcattctgcgcaggtgtgctacacaaatgatacagctgac 333

QY 241 gacgtctatgagacgcagcagcagcagctgtgtacatcctctgagctgagtgctggagag 300
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Db gacatcttcgagacaaagcagcagcagctgtgtacatcctctgagctgagtgctggagag 393

QY 301 ctcttcgattcttcgcccaggaagagatcactgagtgaaggagggccaccagcttcat 360
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QY 361 aagcagatcctgtagtgagtgtaactccttcaacaagaataatgtcatttgatctc 420
Db 454 aagcagatcctgtagtgagtgtaactccttcaacaagaataatgtcatttgatctc 420
QY 421 aagcagaaacatactgtgttagaagaataatccttcaacaagaataatgtcatttgatctc 480
Db 514 aagcagaaacatactgtgttagaagaataatccttcaacaagaataatgtcatttgatctc 480
QY 481 gacttggtcgtgctcaagaataatgagagtgagtgagtgagtgagtgagtgagtgag 540
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QY 601 tggagatagggcgtcactacacacacacacacacacacacacacacacacacacacac 660
Db 694 tggagatagggcgtcactacacacacacacacacacacacacacacacacacacacac 660
QY 661 aagaaagcagaaacacacacacacacacacacacacacacacacacacacacacacac 720
Db 754 aagaaagcagaaacacacacacacacacacacacacacacacacacacacacacacac 720
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Db 814 ttcagcacaacagcagagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 780
QY 781 cggaaacggtcacaacacacacacacacacacacacacacacacacacacacacacac 833
Db 874 aagcagagagatgacatctgcccagagcgtggaacatctcgtgattgaagcgat 926
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## RESULT 2

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US-09-186-277-3
; Sequence 3, Application US/09186277
; Patent No. 6171841
; GENERAL INFORMATION:
; APPLICANT: AKIRA, SHIZUO
; APPLICANT: KAWAI, TARO
; TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE
; FILE REFERENCE: 081356/0128
; CURRENT APPLICATION NUMBER: US/09/186, 277
; EARLIER FILING DATE: 1998-11-05
; EARLIER APPLICATION NUMBER: JP97/261589
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3
; LENGTH: 2132
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (94)..(1455)
US-09-186-277-3
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Query Match 47.6%; Score 514.6; DB 4; Length 2132;
Best Local Similarity 76.1%; Pred. No. 2,1e-125;
Matches 634; Conservative 0; Mismatches 199; Indels 0; Gaps 0;
QY 1 atggagcattcaagcagcagagtgagagctttagcatcgagagagagtgagg 60
Db 94 atggcagcttccagcagcagagtgagagctttagcatcgagagagagtgagg 153
QY 61 agtggcagctttagcatcgtagaagtgccgaggaagacacagcggttgagatgca 120
Db 154 agcggcagctttagcatcgtagaagtgccgaggaagacacagcggttgagatgca 213
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QY 121 gccaaagctcaagaagcgcagagccgagccgagccgagccgagccgagccgagccgag 180
Db 214 gccaaagctcaagaagcgcagccgctgctacacagccgagccgagccgagccgagccgag 273
QY 181 atcgagcggagagtgagcagccctgagcagagtgctgacacacacacacacacacacacac 240
Db 274 atcgagcggagagtgagcagccctgagcagagtgctgacacacacacacacacacacacac 333
QY 241 gacgtctatagagacccgacacgagtgagacacacacacacacacacacacacacacacac 300
Db 334 gacatcttcgagacacagacgagtgagacacacacacacacacacacacacacacacacac 393
QY 301 cctctgactcctcggcaggaagagtgagtgagtgagtgagtgagtgagtgagtgagtgag 360
Db 394 cctctgactcctcggcaggaagagtgagtgagtgagtgagtgagtgagtgagtgagtgag 453
QY 361 aagcagatcctgtagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 420
Db 454 aagcagatcctgtagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 513
QY 421 aagcagaaacatactgtgttagaagaataatccttcaacaagaataatgtcatttgatctc 480
Db 514 aagcagaaacatactgtgttagaagaataatccttcaacaagaataatgtcatttgatctc 480
QY 481 gacttggtcgtgctcaagaataatgagagtgagtgagtgagtgagtgagtgagtgagtgag 540
Db 574 gacttggtcgtgctcaagaataatgagagtgagtgagtgagtgagtgagtgagtgagtgag 540
QY 541 ccggaattgtgtgctcagaaatgtgaaatgagagtgagtgagtgagtgagtgagtgagtgag 600
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QY 601 tggagatagggcgtcactacacacacacacacacacacacacacacacacacacacacacac 660
Db 694 tggagatagggcgtcactacacacacacacacacacacacacacacacacacacacacacac 660
QY 661 aagaaagcagaaacacacacacacacacacacacacacacacacacacacacacacac 720
Db 754 aagaaagcagaaacacacacacacacacacacacacacacacacacacacacacacac 720
QY 721 ttcagcacaacagcagagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 780
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Db 874 aagcagagagatgacatctgcccagagcgtggaacatctcgtgattgaagcgat 926
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## RESULT 3

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US-09-159-385-4
; Sequence 4, Application US/09159385
; Patent No. 5958748
; GENERAL INFORMATION:
; APPLICANT: AKIRA, SHIZUO
; APPLICANT: KAWAI, TARO
; TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE
; FILE REFERENCE: PH-569
; CURRENT APPLICATION NUMBER: US/09/159, 385
; EARLIER FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: JP97/261589
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1429
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (10)..(1353)
US-09-159-385-4
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Query Match 47.5% Score 512.8; DB 2; Length 1429;  
Best Local Similarity 76.2% Pred. No. 5.3e-125;  
Matches 631; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

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QY 1 atgagccattcaagcagaagctggaagcttataatgacatcgagagagctggg 60
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QY 61 agtggcagatttgcacatctgtaagaagtgccggagagaagacgggcttgatgca 120
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QY 121 gccaaattcatcaagaagcggcagagccggcggcggcggctgtgagccggagag 180
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Db 130 gccaaattcatcaagaagcggcggcggcggcggcggcggctgtgagccggagag 189
QY 181 atcgaagcggaggtgagacatctctgcaaggtgctgcaaccaatgcatcagctgac 240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db 190 atcgaagcggaggtgagacatctctgcaaggtgctgcaaccaatgcatcagctgac 249
QY 241 gacgtctatgagaacccgacccgacgtgtgacatccttgagctagtgctgagagag 300
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QY 301 ctcttgatttccgtcccgcaagagatcactgagtgagagagagccacacgttcaat 360
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QY 361 aagcagatctctgagtgagggtgaactacatcacaagaagaattgtgcatcttgatctc 420
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QY 481 gacttggctcgtcgcagaaatagaagatgagatgtaatttaagaatatcttggagag 540
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Db 550 ccggaatttgttgcacagaatgttgaaactacagacccctgggtcggagcgtgacatg 609
QY 601 tggagcagaagcgtcatcaccatcaccctcttaagtgagagacatcccttccctggagac 660
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QY 661 agcgaagcagaagaacatcgagaaatatacatatcagtgagtgagacttgatgagagatc 720
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QY 721 ttcaagcacaagcgtgagcagacttgagcagaagcttcttgagagcgttcttgagagagac 780
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RESULT 4  
US-09-186-277-4  
Sequence 4, Application US/09186277  
Patent No. 6171841

GENERAL INFORMATION:  
APPLICANT: AKIRA, SHIZUO  
APPLICANT: KANAI, TARO  
TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE  
FILE REFERENCE: 081356/0128  
CURRENT APPLICATION NUMBER: US/09/186, 277  
CURRENT FILING DATE: 1998-11-05

EARLIER APPLICATION NUMBER: JP97/261589  
EARLIER FILING DATE: 1997-09-26  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4

LENGTH: 1429  
TYPE: DNA  
ORGANISM: Mus musculus  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (10)..(1353)  
US-09-186-277-4

Query Match 47.5% Score 512.8; DB 4; Length 1429;  
Best Local Similarity 76.2% Pred. No. 5.3e-125;  
Matches 631; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

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QY 1 atgagccattcaagcagaagctggaagcttataatgacatcgagagagagctggg 60
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Db 10 atgcccattcagcagcagaagagatgttgagaccattatgagatggagagaaacttggc 69
QY 61 agtggcagatttgcacatctgtaagaagtgccggagagaagacgggcttgatgca 120
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QY 121 gccaaattcatcaagaagcggcagagccggcggcggcggctgtgagccggagag 180
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Db 130 gccaaattcatcaagaagcggcggcggcggcggcggcggctgtgagccggagag 189
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Db 190 atcgaagcggaggtgagacatctctgcaaggtgctgcaaccaatgcatcagctgac 249
QY 241 gacgtctatgagaacccgacccgacgtgtgacatccttgagctagtgctgagagag 300
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QY 301 ctcttgatttccgtcccgcaagagatcactgagtgagagagagccacacgttcaat 360
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Db 550 ccggaatttgttgcacagaatgttgaaactacagacccctgggtcggagcgtgacatg 609
QY 601 tggagcagaagcgtcatcaccatcaccctcttaagtgagagacatcccttccctggagac 660
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QY 721 ttcaagcacaagcgtgagcagacttgagcagaagcttcttgagagcgttcttgagagagac 780
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QY 781 cggaaacgctcatcaatccaaagagctctcagacaccccttgatcaag 828
    ||| ||||| ||| ||| ||||| ||| ||| ||||| ||| ||| ||||| |||
Db 790 aagagagagatgacatcgcagacagccttgagatcttcgtgacaaag 837
```

```

1  RESULT      5
2  US-08-631-097-3
3  ; Sequence 3, Application US/08631097
4  ; Patent No. 5968816
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Kimchil, Adi
7  ; TITLE OF INVENTION: Tumor Suppressor Genes,
8  ; TITLE OF INVENTION: Protein Encoded Thereby, and Use of Said Genes and Protein
9  ; NUMBER OF SEQUENCES: 7
10 ; CORRESPONDENCE ADDRESS:
11 ; ADDRESSEE: Wigman, Cohen, Leitner, & Myers, P.C.
12 ; STREET: 900 17th Street, N.W., Suite 1000
13 ; CITY: Washington
14 ; STATE: D.C.
15 ; COUNTRY: USA
16 ; ZIP: 20006
17 ; COMPUTER READABLE FORM:
18 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
19 ; COMPUTER: IBM Compatible
20 ; OPERATING SYSTEM: DOS
21 ; SOFTWARE: ASCII
22 ; CURRENT APPLICATION DATA:
23 ; APPLICATION NUMBER: US/08/631,097
24 ; FILING DATE: 12-Apr-96
25 ; CLASSIFICATION: 514
26 ; PRIORITY APPLICATION DATA:
27 ; APPLICATION NUMBER: PCT/US94/11598
28 ; FILING DATE: 12-Oct-94
29 ; ATTORNEY/AGENT INFORMATION:
30 ; NAME: Cohen, Herbert
31 ; REGISTRATION NUMBER: 25,109
32 ; REFERENCE/DOCKET NUMBER: 0744.057
33 ; TELECOMMUNICATION INFORMATION:
34 ; TELEPHONE: (202)463-7700
35 ; TELEFAX: (202)473-6915
36 ; INFORMATION FOR SEQ ID NO: 3:
37 ; SEQUENCE CHARACTERISTICS:
38 ; LENGTH: 4935 base pairs
39 ; TYPE: nucleic acid
40 ; STRANDEDNESS: double
41 ; TOPOLOGY: linear
42 ; MOLECULE TYPE: Genomic DNA
43 ; HYPOTHEICAL: NO
44 ; ANTI-SENSE: NO
45 ; FRAGMENT TYPE: No. 5968816 applicable
46 ; ORIGINAL SOURCE:
47 ; ORGANISM: homo sapiens
48 ; STRAIN: not applicable
49 ; INDIVIDUAL ISOLATE: not applicable
50 ; DEVELOPMENTAL STAGE: not applicable
51 ; HAPLOTYPE: not applicable
52 ; TISSUE TYPE: blood
53 ; CELL TYPE: Leucocyte
54 ; CELL LINE: HeLa
55 ; ORGANELLER: not applicable
56 ; IMMEDIATE SOURCE:
57 ; LIBRARY: not applicable
58 ; CLONE: not applicable
59 ; POSITION IN GENOME:
60 ; CHROMOSOME/SEGMENT: not applicable
61 ; MAP POSITION: not applicable
62 ; UNITS: not applicable
63 ; FEATURE:
64 ; NAME/KEY: Seq. ID. NO.: 3 is
65 ; NAME/KEY: the sequence in claim 1(11) as Figure 8 of the specification
66 ; LOCATION: not available
67 ; IDENTIFICATION METHOD: experiment-
68 ; IDENTIFICATION METHOD: in specification
69 ; OTHER INFORMATION: prevention of IRN-2
70 ; OTHER INFORMATION: promoted cell death
71 ; PUBLICATION INFORMATION: not available

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US-08-631-097-3

Query Match	41.5%	Score 448.6	DB 2	Length 4933
Best Local Similarity	67.5%	Pred. No. 5.5e-108		
Matches 653	Conservative 0	Mismatched 294	Indels 24	Gaps
QY 10	ltcaagcagcagaagtgatgagactttaaatactcgagagagctgggagtgccag	69		
Db 346	TTTCAGCGAGAAAACTGGATGATTAATACGACACCGGGAGAACTTGGATGACAG	405		
QY 70	tttgccatcgtagaagatgcccgggagaagagcagggcttgagtaatcgaccagttc	129		
Db 406	TTTTCGGTTGTGAGAAATCCCGTGAAGAAAGTACCGGGCTCCAGTATCCGCCAAATTC	465		
QY 130	atcaagaagcggagagccggcgagccggcggtgttagccggagagagatcgacgg	189		
Db 466	ATCAAGAAAAGAGAGACTAAGTCCACCGCGGGGTGTAGCCCGAGAGACATTCAGCGG	525		
QY 190	gaagtgagatcctctggcgaggtgtctgcacaaatgltcaacgctgcagagctcat	249		
Db 526	GAGGTACGACTCTTGAAAGAGATCCAGCAACCCCAATGTGATACCTCGACAGGTTAT	585		
QY 250	gagaacccagccagctggtgacatcccttgagctagttctcgagagagagctctcat	309		
Db 586	GAGAACAGACGGAGCTCATCTGATCTTGAAATCTGTGGACGTGGGAGCTGTTGAC	645		
QY 310	ttccctgcccagaagagatcactgagtgtagagagagccacagcttaataagcagatc	369		
Db 646	TTCTTAGCGTGAAGAAAGCAATCTTAATCTGAAGAGGAAGCAATGATTTCTCAACAAATT	705		
QY 370	ctgagatggggtgaacactcttcaacaaagaaattgtcactttgactctcaagccgaa	429		
Db 706	CTTAATAGTGTTTACTACTGCACTCCCTTCAAAATCGCCACTTGTATCTTAAGCTTAG	765		
QY 430	aacatcatgtgttagacaagaataatcccatctcacacatcaagctgattgacttgt	489		
Db 766	AACATATCTTTTGAGTGAATATGCCCAAACTCGGATCAAGATCATTTGACTT-----	821		
QY 490	ctggctcaagaaatagaagatggagtgaatttaaataatltttggagccggaattc	549		
Db 822	-----TGGAAATAAATTTAAAAATTAATTTTGGACATCCAGAGTTT	861		
QY 550	gttgctcagaataatgtgaactacgagccctgggtctcgagagcttgacatgtgagata	609		
Db 862	GTTCGCTCTGAGATGTGATCAATATGCAACCTCTGGTCTTGAAGCAGATATGTGAAGATC	921		
QY 610	ggcgctacacatcatcctctttaagttagagatccccccttctctggagacagaagcag	669		
Db 922	GGGGTAATATACCTATATCTCTCTTAAGTGGGGCTCCCATTTCTTGAAGACACTTAACAA	981		
QY 670	gaanaactggaataatcacatcagtagatgaactgtgtaggaattccttaagcat	729		
Db 982	GAAAGCTTAGCAAAATGATTCGGCTGTCACTAAGCAATTTTAGAGATGAATCTTCAGTAAT	1041		
QY 730	acgagcagagctcggaaggaacttaatcogaagcttctggtttaagaagaccggaaacg	789		
Db 1042	ACCATGTGCCCTTAGCAAAAGATTTATGAAGACCTTGTGTCAGAGATTCCAAAAGAGAGA	1101		
QY 790	ctcacaatccaaagagctctcaagacaccccttggatcagcgcggttgagcaacagcaagcc	849		
Db 1102	ATGACAAATTCAAAGATAGTTTGCACACTCCCTCGATCAAGCTTAAGATATACACAAAGCCA	1161		
QY 850	atggtgtcgagcgaggtctgtgtgtcaatctcgtgagaactcagaagaagatgtgtccgag	909		
Db 1162	CTTAGTAGAAAAAGCATGACAGATGAACATGAGAAATTCAAAGAGATTTCAGACCCGAGAA	1221		
QY 910	cggtagaagcttctcctcagcatcggtctccctgtgacaacacctcaaccgctgcgatg	969		
Db 1222	AAATGGAACAAATCGTTGCCCTTGATATCACTGTGCCAAAGATTAATACAGTCAATTCCTG	1281		
QY 970	aagaagtgcaactgag 986			

Db 1282 TCCAGAAGTACATGAG 1298

```

RESULT 6
Sequence 9, Application US/08810712G
Patent No. 6160106
GENERAL INFORMATION:
APPLICANT: yeda Research and Development Co. LTD
TITLE OF INVENTION: Tumor Suppressor Genes, Proteins
FILE REFERENCE: sequencelist
CURRENT APPLICATION NUMBER: US/08/810,712G
CURRENT FILING DATE: 1997-03-03
EARLIER APPLICATION NUMBER: PCT/US94/11598
EARLIER FILING DATE: 1994-10-12
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 5886
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (337)..(4605)
US-08-810-712-9

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Query Match	41.5%;	Score 448.6;	DB 4;	Length 5886;
Best Local Similarity	67.5%;	Pred. NO. 5.9e-108;		
Matches 659; Conservative	0;	Mismatches 294;	Indels 24;	Gaps 1;

[illegible]

Db	922	gggtaataacatactaccctccctaagtgggctccccaattcttggagacctaaga	981
Oy	670	gaagcacatgccaatatcatcatcagtagtctacagacttggatgagaaattcttcagccat	729
Db	982	gaacagcttagcaaatgtatcgcgtgtgcactaactaagaatttgagatgatacttcagtaat	1041
Oy	730	acgagcgagctgtgccaaaggaacttattcggaaagctctgtgtaaaagagaccggaaaagg	789
Db	1042	accgctgcctcagccaagaagattctcataaagaagcttctgttcaagatcccaagagagga	1101
Oy	790	ctccaatcccaagagggcttcacagaccccttgatcacgcggtgacacaacaagaacc	849
Db	1102	atgcgaattcagaatagtgttcgcagcatcccttgatcatcaagctcttaagaatcacacaacagca	1161
Oy	850	atggtcgcagcggaagctgtgtgtaaatcttggaaacttcagaaagcagtaatgtccgcagg	909
Db	1162	cttagtgaaaaagatcatcagatcagaataacatgagaatattcaagaattgtcacgcccggaaa	1221
Oy	910	cgggtgagagcttccttcacagcatcgtgtccctgtgaaacaccctcaacccgctgctgtg	969
Db	1222	aaatggaacaacatccgtctgcgttatatactatcgttgcgaagatatccagtgtaattcctg	1281
Oy	970	aagaaggtgcaccttgag	986
Db	1282	tcagaaatatacatgag	1298

```

RESULT 7
US-09-221-235-12
; Sequence 12, Application US/09221235
; Patent No. 6043040
; GENERAL INFORMATION:
; APPLICANT: Action, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: NMT-050
; CURRENT APPLICATION NUMBER: US/09/221,235
; CURRENT FILING DATE: 1998-12-28
; EARLIER APPLICATION NUMBER: 09/163,115
; EARLIER FILING DATE:
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(480)
US-09-221-235-12

```

Query Match	41.2%	Score 445.4;	DB 3;	Length 480;
Best Local Similarity	98.7%	Pred. No. 1.5e-107;		
Matches 449; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0;

QY	636	tcctcttaagatcggagacatcccccttctcttgaggagacagaagccaggaaacccctggcaata	665
Db	26	tcaagtttaagatcggagacatcccccttctcttgaggagacagaagccaggaaacccctggcaata	85
QY	686	tcaacatcaagtcgaattacgaactttgatgagagatcttcacacatatagagagactggcca	745
Db	86	tcaacagccgctgagttacgaactttgatgagagatcttcacacatatagagagactggcca	145
QY	746	aggacttatttcggaagcttctctgttcaaaagagaccgggaacgggtccacaatcccaagag	805
Db	146	aggacttatttcggaagcttctctgttcaaaagagaccgggaacgggtccacaatcccaagag	205
QY	806	cctctcaagacacccctcgagatcagcccgcttgagacaaccgacaagccatctgtcgaacggagt	865
Db	206	cctctcaagacacccctcgagatcagcccgcttgagacaaccgacaagccatctgtcgaacggagt	265
QY	866	ctgtgtgtaacatctggagaacttcagagaaacgatatgtctccgacagccgcttggaacttctc	925

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Db 266 ctgtgtcaatctgtgagaacttcaaggagcagatgctgcagcggtggaactcttcct 325
QY 926 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 985
Db 326 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 385
QY 986 ggcgcgagatgagacttgaagaactgtgagagtgacactagagagagacatcgccagagga 1045
Db 386 ggcgcgagatgagacttgaagaactgtgagagtgacactagagagagacatcgccagagga 445
QY 1046 aagccctccaccacgagagagagagagacactcc 1080
Db 446 aagccctccaccacgagagagagagagacactcc 480
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RESULT 8
US-09-221-928-12
; Sequence 12, Application US/09221928
; Patent No. 6121030
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: MNI-050
; CURRENT APPLICATION NUMBER: US/09/221,928
; EARLIER FILING DATE: 1998-12-28
; EARLIER APPLICATION NUMBER: 09/163,115
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 12
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(480)
US-09-221-928-12
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```
Query Match 41.2%; Score 445.4; DB 3; Length 480;
Best Local Similarity 98.7%; Pred. No. 1.5e-107;
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcccttaagtgtgagcatcccttctcctgtgagagacagagcagaaacacttgcaata 685
Db 26 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 85
QY 686 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 745
Db 86 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 145
QY 746 aggaacttattcggaagcttcgtgttaagaagccggaaacggctcaacatccaaagag 805
Db 146 aggaacttattcggaagcttcgtgttaagaagccggaaacggctcaacatccaaagag 205
QY 806 ctctcagaacccctgtgatacgcggtgtgacaacagcaagcattgtgcagcggagt 865
Db 206 ctctcagaacccctgtgatacgcggtgtgacaacagcaagcattgtgcagcggagt 265
QY 866 ctgtgtcaatctgtgagaacttcaagaagcagatgtccgcagcggttgaagcttct 925
Db 266 ctgtgtcaatctgtgagaacttcaagaagcagatgtccgcagcggttgaagcttct 325
QY 926 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 985
Db 326 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 385
QY 986 ggcgcgagatgagacttgaagaactgtgagagtgacactagagagagacatcgccagagga 1045
Db 386 ggcgcgagatgagacttgaagaactgtgagagtgacactagagagagacatcgccagagga 445
QY 1046 aagccctccaccacgagagagagagagacactcc 1080
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Db 446 aagccctccaccacgagagagagagagacactcc 480
RESULT 9
US-09-221-527-12
; Sequence 12, Application US/09221527
; Patent No. 6146832
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: MNI-050
; CURRENT APPLICATION NUMBER: US/09/221,527
; EARLIER FILING DATE: 1998-12-28
; EARLIER APPLICATION NUMBER: 09/163,115
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 12
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(480)
US-09-221-527-12
```

```
Query Match 41.2%; Score 445.4; DB 3; Length 480;
Best Local Similarity 98.7%; Pred. No. 1.5e-107;
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcccttaagtgtgagcatcccttctcctgtgagagacagagcagaaacacttgcaata 685
Db 26 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 85
QY 686 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 745
Db 86 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 145
QY 746 aggaacttattcggaagcttcgtgttaagaagccggaaacggctcaacatccaaagag 805
Db 146 aggaacttattcggaagcttcgtgttaagaagccggaaacggctcaacatccaaagag 205
QY 806 ctctcagaacccctgtgatacgcggtgtgacaacagcaagcattgtgcagcggagt 865
Db 206 ctctcagaacccctgtgatacgcggtgtgacaacagcaagcattgtgcagcggagt 265
QY 866 ctgtgtcaatctgtgagaacttcaagaagcagatgtccgcagcggttgaagcttct 925
Db 266 ctgtgtcaatctgtgagaacttcaagaagcagatgtccgcagcggttgaagcttct 325
QY 926 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 985
Db 326 tcaagcatcgtgtccctgtgtgacaacactcaaccgctgcgtgtatgaagaaggtgacctga 385
QY 986 ggcgcgagatgagacttgaagaactgtgagagtgacactagagagagacatcgccagagga 1045
Db 386 ggcgcgagatgagacttgaagaactgtgagagtgacactagagagagacatcgccagagga 445
QY 1046 aagccctccaccacgagagagagagagacactcc 1080
Db 446 aagccctccaccacgagagagagagagacactcc 480

RESULT 10
US-09-221-236-12
; Sequence 12, Application US/09221236
; Patent No. 6146841
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: MNI-050
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: CURRENT APPLICATION NUMBER: US/09/221,236
: CURRENT FILING DATE: 1998-12-28
: EARLIER APPLICATION NUMBER: 09/163,115
: EARLIER FILING DATE: 1998-09-29
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 12
: LENGTH: 480
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(480)
: US-09-221-236-12

Query Match      41.2%; Score 445.4; DB 3; Length 480;
Best Local Similarity 98.7%; Pred. No. 1.5e-107;
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcctcttaagtggagcatccctcttctctggaagacagaaagcaagaacactgtgcaata 685
    |||
Db 26 tcagcttaagtggagcatccctcttctctggaagacagaaagcaagaacactgtgcaata 85

QY 686 tcacatcagtgagttacgactttgataggaattcttcacgacatacagcagctggcca 745
    |||
Db 86 tcacagcagtgagttacgactttgataggaattcttcacgacatacagcagctggcca 145

QY 746 aggaacttattcggaaagcttctgtttaaagagaccggaaacggctcaacaataagagg 805
    |||
Db 146 aggaacttattcggaaagcttctgtttaaagagaccggaaacggctcaacaataagagg 205

QY 806 ctctccaaacaccccttgatatacgcggttgtaacacacgaaacacatggttgagaggagt 865
    |||
Db 206 ctctccaaacaccccttgatatacgcggttgtaacacacgaaacacatggttgagaggagt 265

QY 866 ctgtgtcaaatcttgagaactctcaggaagcagatgtccgcagagcggttgagagcttct 925
    |||
Db 266 ctgtgtcaaatcttgagaactctcaggaagcagatgtgtccgcagagcggttgagagcttct 325

QY 926 tcagcatcgtgtccctgttgcaaccactcaaccgcgtcgtgatgaagaagtgcaactga 985
    |||
Db 326 tcagcatcgtgtccctgttgcaaccactcaaccgcgtcgtgatgaagaagtgcaactga 385

QY 986 ggcgcgagtgaggaactctgaggaactgtgagagtgacactgaggaagacatgcgcagagga 1045
    |||
Db 386 ggcgcgagtgaggaactctgaggaactgtgagagtgacactgaggaagacatgcgcagagga 445

QY 1046 aagccctccacccacgagagagagagagacacctcc 1080
    |||
Db 446 aagccctccacccacgagagagagagagagacacctcc 480

RESULT 11
US-09-221-416-12
: Sequence 12, Application US/09221416
: Patent No. 6153417
: GENERAL INFORMATION:
: APPLICANT: Acton, Susan
: TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
: FILE REFERENCE: NMI-050
: CURRENT APPLICATION NUMBER: US/09/221,416
: EARLIER FILING DATE: 1998-12-28
: EARLIER APPLICATION NUMBER: 09/163,115
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 12
: LENGTH: 480
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(480)
: US-09-221-416-12
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: LOCATION: (1)..(480)
US-09-221-416-12

Query Match      41.2%; Score 445.4; DB 3; Length 480;
Best Local Similarity 98.7%; Pred. No. 1.5e-107;
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcctcttaagtggagcatccctcttctctggaagacagaaagcaagaacactgtgcaata 685
    |||
Db 26 tcagcttaagtggagcatccctcttctctggaagacagaaagcaagaacactgtgcaata 85

QY 686 tcacatcagtgagttacgactttgataggaattcttcacgacatacagcagctggcca 745
    |||
Db 86 tcacagcagtgagttacgactttgataggaattcttcacgacatacagcagctggcca 145

QY 746 aggaacttattcggaaagcttctgtttaaagagaccggaaacggctcaacaataagagg 805
    |||
Db 146 aggaacttattcggaaagcttctgtttaaagagaccggaaacggctcaacaataagagg 205

QY 806 ctctccaaacaccccttgatatacgcggttgtaacacacgaaacacatggttgagaggagt 865
    |||
Db 206 ctctccaaacaccccttgatatacgcggttgtaacacacgaaacacatggttgagaggagt 265

QY 866 ctgtgtcaaatcttgagaactctcaggaagcagatgtccgcagagcggttgagagcttct 925
    |||
Db 266 ctgtgtcaaatcttgagaactctcaggaagcagatgtgtccgcagagcggttgagagcttct 325

QY 926 tcagcatcgtgtccctgttgcaaccactcaaccgcgtcgtgatgaagaagtgcaactga 985
    |||
Db 326 tcagcatcgtgtccctgttgcaaccactcaaccgcgtcgtgatgaagaagtgcaactga 385

QY 986 ggcgcgagtgaggaactctgaggaactgtgagaaatgaacatgagagagacatgcgcagagga 1045
    |||
Db 386 ggcgcgagtgaggaactctgaggaactgtgagaaatgaacatgagagagacatgcgcagagga 445

QY 1046 aagccctccacccacgagagagagagagacacctcc 1080
    |||
Db 446 aagccctccacccacgagagagagagagagacacctcc 480

RESULT 12
US-09-221-245-12
: Sequence 12, Application US/09221245
: Patent No. 6180358
: GENERAL INFORMATION:
: APPLICANT: Acton, Susan
: TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
: FILE REFERENCE: NMI-050
: CURRENT APPLICATION NUMBER: US/09/221,245
: EARLIER FILING DATE: 1998-12-28
: EARLIER APPLICATION NUMBER: 09/163,115
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 12
: LENGTH: 480
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(480)
: US-09-221-245-12

Query Match      41.2%; Score 445.4; DB 4; Length 480;
Best Local Similarity 98.7%; Pred. No. 1.5e-107;
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcctcttaagtggagcatccctcttctctggaagacagaaagcaagaacactgtgcaata 685
    |||
Db 26 tcagcttaagtggagcatccctcttctctggaagacagaaagcaagaacactgtgcaata 85
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QY 666 tcaatcagtgagtgacagacttgatgagaaattcttcagcatatcagcagcgtgagcca 745  
|||||  
Db 86 tcaacagcagtgagtgacagacttgatgagaaattcttcagcatatcagcagcgtgagcca 145  
QY 746 aggaacttaattcggaaagctctggttaagagaccgggaagggcctcaatccaagaag 805  
|||||  
Db 146 aggaacttaattcggaaagctctggttaagagaccgggaagggcctcaatccaagaag 205  
QY 806 ctctcagaacacccctgagatcagcgcgtgagacaacagacatgctgagcagagagt 865  
206 ctctcagaacacccctgagatcagcgcgtgagacaacagacatgctgagcagagagt 265  
QY 866 ctgtgtgtaacttgagaaacttcaggaagcagatgctcgacagcggtggaagcttctc 925  
266 ctgtgtgtaacttgagaaacttcaggaagcagatgctcgacagcggtggaagcttctc 325  
QY 926 tcaagatcgtctcctgtgcaacacccctcagctcgctgtaagaaggtgcaacttga 985  
326 tcaagatcgtctcctgtgcaacacccctcagctcgctgtaagaaggtgcaacttga 385  
QY 986 ggcggatgagagaccttgagaaactgtgagagtgaacttgagagagacatcgccagagga 1045  
386 ggcggatgagagaccttgagaaactgtgagagtgaacttgagagagacatcgccagagga 445  
QY 1046 aagccctcaccacacgagagagagagacagcctcc 1080  
Db 446 aagccctcaccacacgagagagagagacagcctcc 480

RESULT 13  
US-09-163-115-12  
; Sequence 12, Application US/09163115A  
; Patent No. 6183962  
; GENERAL INFORMATION:  
; APPLICANT: Acton, Susan  
; TITLE OF INVENTION: NOVEL CSAFK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR  
; FILE REFERENCE: MNT-050  
; CURRENT APPLICATION NUMBER: US/09/163,115A  
; CURRENT FILING DATE: 1998-09-29  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 480  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(480)  
US-09-163-115-12

Query Match 41.2%; Score 445.4; DB 4; Length 480;  
Best Local Similarity 98.7%; Pred. No. 1.5e-107;  
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcccttaagtgagagcacccttctcctgggagacagaaagagaaacactggcaata 685  
|||  
Db 26 tcaagcttaagtgagagcacccttctcctgggagacagaaagagaaacactggcaata 85  
QY 686 tcaatcagtgagtgacacttgatgaggaattcttcagcatatcagcagcgagctggcca 745  
|||||  
Db 86 tcaacagcagtgagtgacacttgatgaggaattcttcagcatatcagcagcgagctggcca 145  
QY 746 aggaacttaattcggaaagctctggttaagagaccgggaagggcctcaatccaagaag 805  
146 aggaacttaattcggaaagctctggttaagagaccgggaagggcctcaatccaagaag 205  
QY 806 ctctcagaacacccctgagatcagcgcgtgagacaacagacatgctgagcagagagt 865  
206 ctctcagaacacccctgagatcagcgcgtgagacaacagacatgctgagcagagagt 265  
QY 866 ctgtgtgtaacttgagaaacttcaggaagcagatgctcgacagcggtggaagcttctc 925  
|||||

Db 266 ctgtgtgtaacttgagaaacttcaggaagcagatgctcgacagcggtggaagcttctc 325  
QY 926 tcaagatcgtctcctgtgcaacacccctcagctcgctgtaagaaggtgcaacttga 985  
326 tcaagatcgtctcctgtgcaacacccctcagctcgctgtaagaaggtgcaacttga 385  
QY 986 ggcggatgagagaccttgagaaactgtgagagtgaacttgagagagacatcgccagagga 1045  
386 ggcggatgagagaccttgagaaactgtgagagtgaacttgagagagacatcgccagagga 445  
QY 1046 aagccctcaccacacgagagagagagacagcctcc 1080  
Db 446 aagccctcaccacacgagagagagagacagcctcc 480

RESULT 14  
US-09-221-528-12  
; Sequence 12, Application US/09221528  
; Patent No. 6190874  
; GENERAL INFORMATION:  
; APPLICANT: Acton, Susan  
; TITLE OF INVENTION: NOVEL CSAFK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR  
; FILE REFERENCE: MNT-050  
; CURRENT APPLICATION NUMBER: US/09/221,528  
; CURRENT FILING DATE: 1998-12-28  
; EARLIER APPLICATION NUMBER: 09/163,115  
; EARLIER FILING DATE: 1998-09-29  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 480  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(480)  
US-09-221-528-12

Query Match 41.2%; Score 445.4; DB 4; Length 480;  
Best Local Similarity 98.7%; Pred. No. 1.5e-107;  
Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcccttaagtgagagcacccttctcctgggagacagaaagagaaacactggcaata 685  
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Db 26 tcaagcttaagtgagagcacccttctcctgggagacagaaagagaaacactggcaata 85  
QY 686 tcaatcagtgagtgacacttgatgaggaattcttcagcatatcagcagcgagctggcca 745  
|||||  
Db 86 tcaacagcagtgagtgacacttgatgaggaattcttcagcatatcagcagcgagctggcca 145  
QY 746 aggaacttaattcggaaagctctggttaagagaccgggaagggcctcaatccaagaag 805  
146 aggaacttaattcggaaagctctggttaagagaccgggaagggcctcaatccaagaag 205  
QY 806 ctctcagaacacccctgagatcagcgcgtgagacaacagacatgctgagcagagagt 865  
206 ctctcagaacacccctgagatcagcgcgtgagacaacagacatgctgagcagagagt 265  
QY 866 ctgtgtgtaacttgagaaacttcaggaagcagatgctcgacagcggtggaagcttctc 925  
266 ctgtgtgtaacttgagaaacttcaggaagcagatgctcgacagcggtggaagcttctc 325  
QY 926 tcaagatcgtctcctgtgcaacacccctcagctcgctgtaagaaggtgcaacttga 985  
326 tcaagatcgtctcctgtgcaacacccctcagctcgctgtaagaaggtgcaacttga 385  
QY 986 ggcggatgagagaccttgagaaactgtgagagtgaacttgagagagacatcgccagagga 1045  
386 ggcggatgagagaccttgagaaactgtgagagtgaacttgagagagacatcgccagagga 445  
QY 1046 aagccctcaccacacgagagagagagacagcctcc 1080  
|||||



Db 446 aagccctccaccacgagagagagcaccctcc 480

## RESULT 15

US-09-593-553-12

; Sequence 12, Application US/09593553

; Patent No. 6200770

; GENERAL INFORMATION:

; APPLICANT: Acton, Susan

; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR

; FILE REFERENCE: MNT-050

; CURRENT APPLICATION NUMBER: US/09/593,553

; CURRENT FILING DATE: 2000-06-14

; PRIOR APPLICATION NUMBER: 09/163,115

; PRIOR FILING DATE: 1998-09-28

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: Patentln Ver. 2.0

; SEQ ID NO 12

; LENGTH: 480

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)..(480)

US-09-593-553-12

## Query Match

41.2%; Score 445.4; DB 4; Length 480;

Best Local Similarity 98.7%; Pred. No. 1.5e-107;

Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 626 tcccttaagtgagacatccctctctctgagagacagaaacagaaacacgtgcaata 685  
Db 26 tcagcttaagtgagacatccctctctctgagagacagaaacacgtgcaata 85  
QY 686 tccacatcagtgagtgacgaacttgatgaggaatctctcaagcatalcagagcagctggcca 745  
Db 86 tcacagcagtgagtgacgaacttgatgaggaatctctcaagcagcagcagctggcca 145  
QY 746 aggaacttattcggaagctctgtttaagaagaccggaacggtctacaatccaagagg 805  
Db 146 aggaacttattcggaagctctgtttaagaagaccggaacggtctacaatccaagagg 205  
QY 806 ctctcagacaccccttgatcagccggttgagacacccagcagcagctgtgcagggagt 865  
Db 206 ctctcagacaccccttgatcagccggttgagacacccagcagcagctgtgcagggagt 265  
QY 866 ctgttggtcaatctcgaagacttcagaaagcagatgtcgcagagcggttgaaagcttctc 925  
Db 266 ctgttggtcaatctcgaagacttcagaaagcagatgtcgcagagcggttgaaagcttctc 325  
QY 926 tcagcatcgtgtccctgttgacaacactcccgctcgtcgtatgaagaaggtgcacctga 985  
Db 326 tcagcatcgtgtccctgttgacaacactcccgctcgtcgtatgaagaaggtgcacctga 385  
QY 986 ggcgcgagtgaggaacttgagaaacttgagagtgacacttgagagagacatcgccagagaga 1045  
Db 386 ggcgcgagtgaggaacttgagaaacttgagagtgacacttgagagagacatcgccagagaga 445  
QY 1046 aagccctccacccacgagagagagcagcaccctcc 1080  
Db 446 aagccctccacccacgagagagagcagcaccctcc 480

Search completed: May 17, 2002, 23:39:12  
Job time: 5606 sec

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